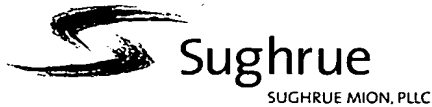


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2100 Pennsylvania Avenue, NW  
Washington, DC 20037-3213DT12 Rec'd PCT/PTO 15 DEC 2004  
C 2003/07990  
F 2002/293,7860

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December 15, 2004

**MAIL STOP PCT**Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450PCT/JP2003/007990  
-filed June 24, 2003

Re: Application of Masami MURAI  
PIEZOELECTRIC ELEMENT, LIQUID JET HEAD AND MANUFACTURING  
METHOD THEREOF  
**Assignee: SEIKO EPSON CORPORATION**  
Our Ref: Q85246

Dear Sir:

The following documents and fees are submitted herewith in connection with the above application for the purpose of entering the National stage under 35 U.S.C. §371 and in accordance with the Patent Cooperation Treaty:

- ☒ an English translation of the International Application.
- ☒ sixteen (16) sheets of drawings (Figs. 1-16b).
- ☒ an Information Disclosure Statement, International Search Report, a PTO/SB/08 A & B (modified) listing the ISR references, and a copy of each reference cited in the ISR.
- ☒ a Preliminary Amendment.
- ☒ **it is expressly requested that the national stage of processing be commenced immediately in accordance with 35 U.S.C. § 371(f)**

Copies of the executed Declaration and Assignment will be submitted at a later date. It is assumed that copies of the International Application, the International Search Report and cited references, the International Preliminary Examination Report, and any Articles 19 and 34 amendments as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.

The Government filing fee, after entry of the Preliminary Amendment, is calculated as follows:

Total claims	32- 20	=	12 x	\$50.00=	\$600.00
Independent claims	4- 3	=	1 x	\$200.00=	\$200.00
Multiple Dependent Claim Fee					\$360.00
Base Fee					\$300.00
Examination Fee					\$200.00
Search Fee					\$500.00
<b>TOTAL FILING FEE</b>					<b>\$2,160.00</b>
<b>TOTAL FEE</b>					<b>\$2,160.00</b>

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JT12 Rec'd PCT/PTO 15 DEC 2004

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SUGHRUE MION, PLLC

National Stage of PCT/JP2003/007990

A check for the statutory filing fee of \$2160.00 is attached. The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this transmittal letter is attached.

Priority is claimed from:

<u>Country</u>	<u>Application No</u>	<u>Filing Date</u>
Japan	2002-183512	June 24, 2002
Japan	2003-178799	June 23, 2003

Respectfully submitted,

*[Signature]*  
Darryl Mexic  
Registration No. 23,063

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WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: December 15, 2004